

WHAT IS CLAIMED IS:

1. A compression feed device for high humidity fuel gas

which compresses high humidity fuel gas, removes moisture, and feeds the gas to a microturbine power generator by being provided with:

a compressor for receiving and compressing high humidity fuel gas,

an air-cooling type fin-tube radiator for cooling the compressed high humidity fuel gas to condense and liquefy the moisture,

a moisture-removing means for separating and removing the condensed and liquefied moisture from the cooled high humidity fuel gas, and

a heat exchanger for heating the fuel gas from said moisture-removing means, then passing it to piping leading to said microturbine power generator and

which uses the heat of compression generated in said compressor so as to heat the fuel gas in said heat exchanger by being provided with a heat medium circulation system comprised of:

a cooling conduit provided at said compressor,

a heating conduit provided at said heat exchanger, and

a heat medium circulation pump for circulating said heat medium through said cooling conduit of the compressor and said heating conduit of the heat exchanger.

2. A compression feed device of high humidity fuel gas as set forth in claim 1, wherein said moisture-removing means includes a gas/liquid separator for separating the fuel gas and condensed water.

3. A compression feed device of high humidity fuel gas as set forth in claim 1, wherein said moisture-removing means includes a moisture-removing tank storing an adsorbent for adsorbing condensed water.

4. A compression feed device of high humidity fuel gas as set forth in claim 1, wherein said heat medium circulation system includes a heat medium tank for storing the heat medium.

5. A compression feed device of high humidity fuel gas as set forth in claim 1, wherein said heat medium circulation system includes a filter for filtering the heat medium.